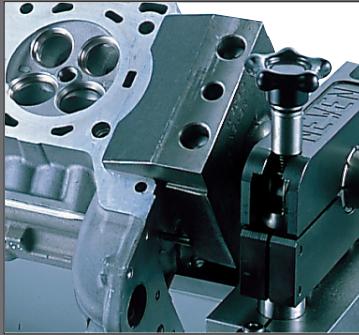


STATIONARY
FIXTURES
TOOLS

& ACCESSORIES



NE  **WEN**®

Elite Power Contouring.

A COMPLETE RANGE of CNC Valve Seat & Guide Machines FOR ALL NEEDS

High-Performance

CONTOUR-BB™

All the **FIXED-TURNING®** qualities at the price of a traditional machine



CONTOUR™

The **FIXED-TURNING®** for seats ranging from 13 to 110mm (.50"-4.33") in diameter. 1600 mm long frame.



FIXED-TURNING®



EPOC™

the most complete offer from motorcycle to industrial applications; the choice of "creators" and developers...



EPOC-XL™

The **FIXED-TURNING® XL** ... for large dimension industrial engines (any seat ranging from 13mm to 200mm+ (.50"-7.87"+) in diameter)

NEWEN®

NEWEN INC

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Tel: 1-858-457-9664 • Fax: 1-858-457-9665

Toll Free (USA & Canada): 1-800-639-3693

Email: contact@newen.com

NEWEN FRANCE SA

Rue de l'Industrie • 74800 La Roche S/Foron • FRANCE

Tel: +33 (0)4-50-25-87-82 • Fax: +33 (0)4-50-97-64-93

www.newen.com

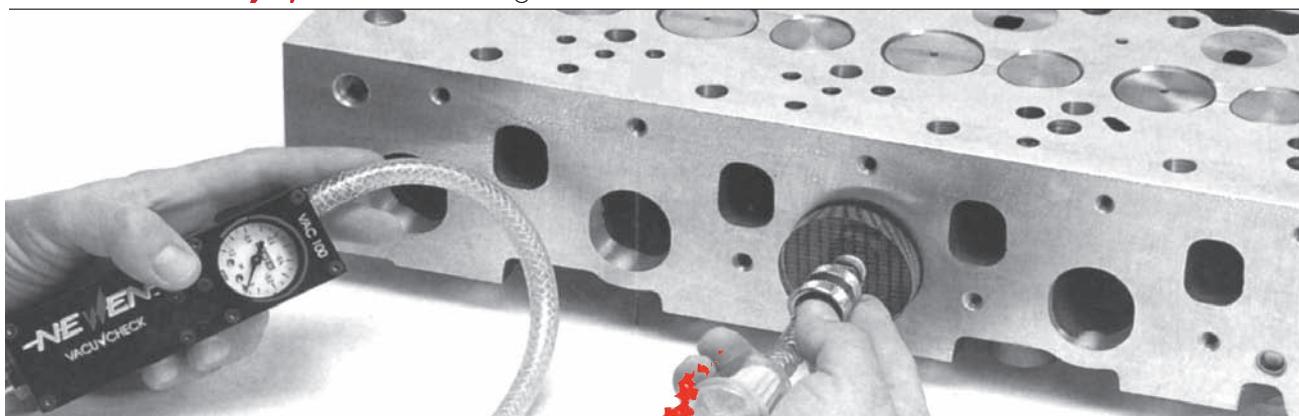
FIXED-TURNING®

World Patents: 6,086293; 6,382883B1; 6,382,884B1...



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PATENTED

VACU CHECK™

LEAKDOWN DETECTION

What sets the Vacu• check™ apart from any other vacuum tester on the market are its two built-in non-return valves that actually hold the vacuum that it creates.

Once the vacuum is created, the built-in valves shut automatically and the vacuum is held within a totally airtight volume.

The gauge of the Vacu• check™ is installed in line within a totally airtight volume.

The gauge of the Vacu• check™ is installed in line with the above mentioned circuit and allows the Vacu• check™ user to measure any leak accurately, regardless of its size, including micro-leaks that typically go unnoticed.

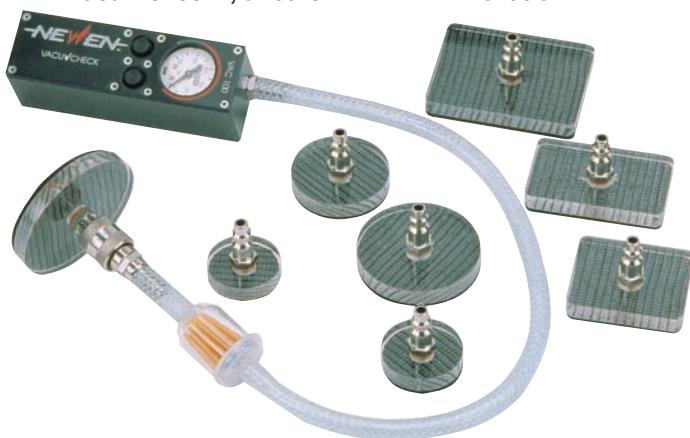
True leak detection can only occur after the pump is stopped.

Only Vacu• check™ lets you measure the leakdown time and detect leaks.

A two step process:

1. Create the vacuum
2. Monitor leak

Vacu• check™, another NEWEN® innovation....



VAC100

The Vacu• check™ comes in a sturdy, yet light-weight carrying case, with 8 pads and two in-line filters. It is easy to carry, fits comfortably in your hand and only requires an airline to be operated.

TECHNICAL CHARACTERISTICS

Compressed Air:

Pressure: 70 to 90 PSI (5 to 6 bars)

Air Flow: 1.12 cfm (0.53 l/second)

Depression:

Maximum Vacuum: 28.1" Hg (-94kPa)

Time for evacuation of 1 liter of air

14.94" Hg (-50kPa) = 2 seconds

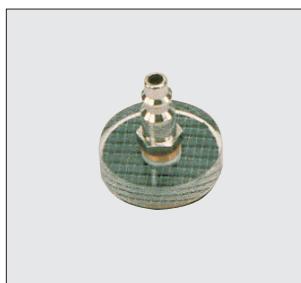
23.91" Hg (-80 kPa) = 5 seconds

Sound level:

60 dB(A)

Temperature:

-4°F to +176°F (-20°C to + 80°C)



VAC301
Replacement plexiglass plate
Round
Diameter: 42mm (**1.6535"**)



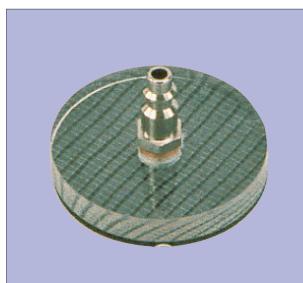
VAC302
Replacement plexiglass plate
Round
Diameter: 45mm (**1.7716"**)



VAC303
Replacement plexiglass plate
Round
Diameter: 57mm (**2.2441"**)



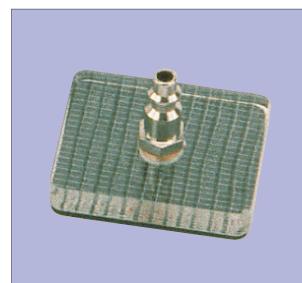
VAC304
Replacement plexiglass plate
Round
Diameter: 70mm (**2.7559"**)



VAC305
Replacement plexiglass plate
Round
Diameter: 80mm (**3.1496"**)



VAC306
Replacement plexiglass plate
Rectangular
Dimensions: 50mm x 80mm
(**1.9685" x 3.1496"**)



VAC307
Replacement plexiglass plate
Rectangular
Dimensions: 55mm x 65mm
(**2.1654" x 2.5591"**)



VAC308
Replacement plexiglass plate
Rectangular
Dimensions: 70mm x 90mm
(**2.7559" x 3.5433"**)



VAC323
Replacement in-line filter
(unit: one filter).



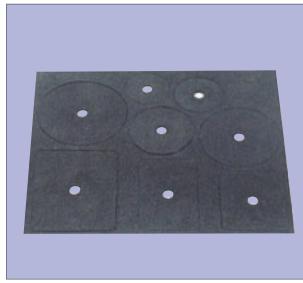
VAC329
Replacement vacuum chip.



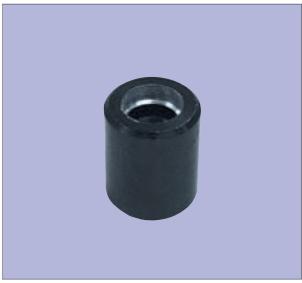
VAC330
Replacement gauge.



VAC308
Plexiglass Plate
Rectangular
Dimensions: 101.6mm X101.6mm
(**4" x 4"**)



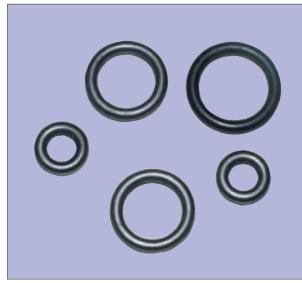
VAC311
Replacement pre-cut
self-adhesive foam pad
set (*100% compatible with
Serdi pads*).



VAC326
Aluminum plug for plexi-
glass plates.



VAC322
Quick Connection with rub-
ber tip for closed circuit.

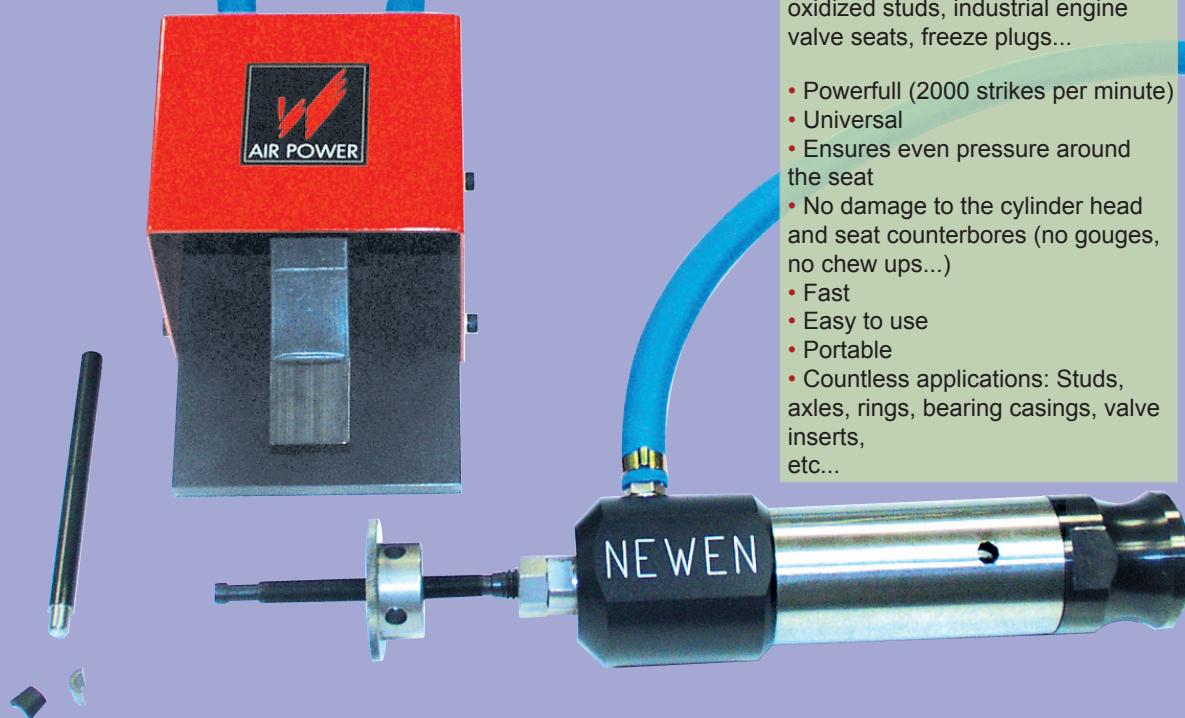


VAC332
Replacement O-ring set.

■ TUG100

TUG-GUN™, universal pneumatic impact puller.

Includes: (1) pneumatic impact puller, (1) foot pedal, (1) TUG600 - threaded shaft, (1) TUG602 - expansion nut, (1) TUG601 - set of 2 keepers, (1) TUG603 - wrench for expansion nut.



NEWEN® TUG-GUN™ (Patented) PNEUMATIC IMPACT PULLER

Nothing resist the TUG-GUN™: oxidized studs, industrial engine valve seats, freeze plugs...

- Powerful (2000 strikes per minute)
- Universal
- Ensures even pressure around the seat
- No damage to the cylinder head and seat counterbores (no gouges, no chew ups...)
- Fast
- Easy to use
- Portable
- Countless applications: Studs, axles, rings, bearing casings, valve inserts, etc...

TUG-GUN™

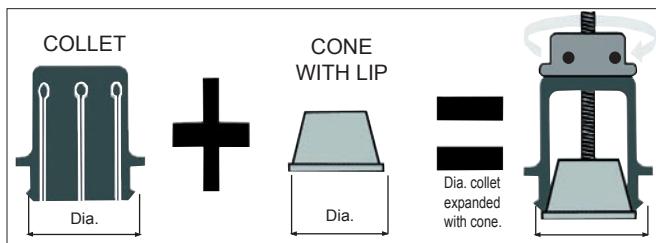
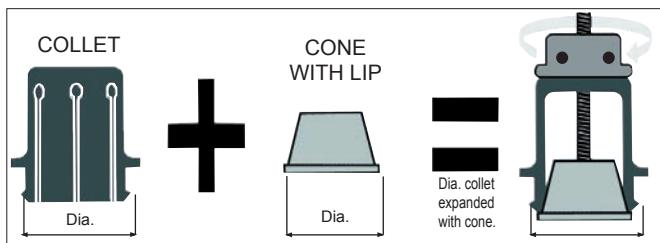
by NEWEN®

"Machinists faced with the task of extracting valve seat inserts have only a few removal options - lever-type pullers, expansion-type pullers or heating with a torch so that the cylinder head expands quickly enough to allow the insert to pop out. Unfortunately, all three methods have the potential to damage the head and/or seat counterbores."

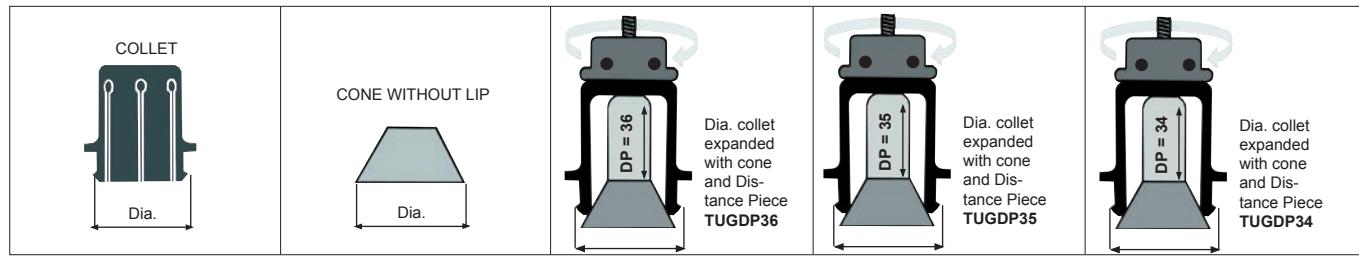
TUG-GUN™ uses a novel approach - pneumatic power - to quickly extract valve seat inserts within seconds, without damage. You begin by putting the proper collet and cone for the application onto the gun's threaded rod to hold everything in place. Once the correct spacers are selected, you place them between the collet's upper lip and the top of the valve seat. Next, position the TUG-GUN™ onto the seat, making sure that the lower collet lip engages the bottom of the seat. Finally, snug up the expansion nut, activate the gun and watch as the seat insert pulls effortlessly away from the counterbore.

NEWEN® makes collets to handle every head imaginable - from the smallest aluminum job to the gargantuan cast-iron diesels from Caterpillar, Detroit Diesel and Cummins. Optional attachments are also available to extract press-in studs...."

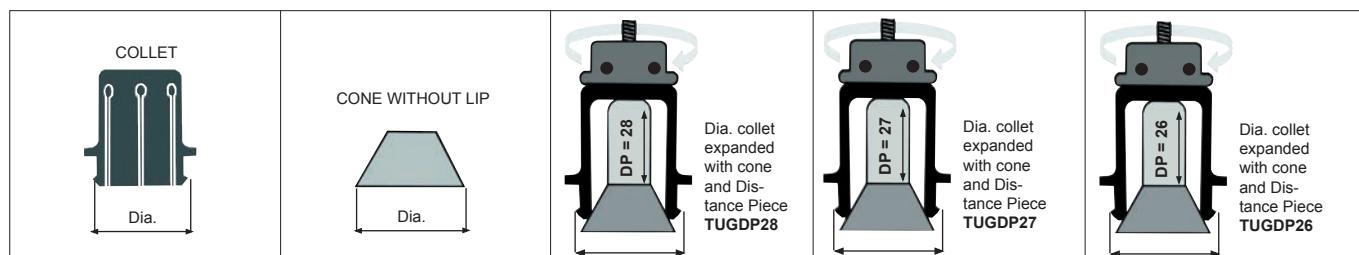
September 1994
Motor Magazine



TUG301 Dia. 23mm (.906")	TUG419 Dia. 19mm (.748")	Dia. 24mm (.945")		
TUG301 Dia. 23mm (.906")	TUG420 Dia. 20mm (.787")	Dia. 25mm (.984")		
TUG302 Dia. 25mm (.984")	TUG421 Dia. 21mm (.827")	Dia. 26mm (1.024")		
TUG302 Dia. 25mm (.984")	TUG422 Dia. 22mm (.866")	Dia. 27mm (1.063")		
TUG303 Dia. 27mm (1.063")	TUG423 Dia. 23mm (.906")	Dia. 28mm (1.102")		
TUG303 Dia. 27mm (1.063")	TUG424 Dia. 24mm (.945")	Dia. 29mm (1.142")		
TUG304 Dia. 29mm (1.142")	TUG425 Dia. 25mm (.984")	Dia. 30mm (1.181")		
TUG304 Dia. 29mm (1.142")	TUG426 Dia. 26mm (1.024")	Dia. 31mm (1.220")		
TUG305 Dia. 31mm (1.220")	TUG427 Dia. 27mm (1.063")	Dia. 32mm (1.260")		
TUG305 Dia. 31mm (1.220")	TUG428 Dia. 28mm (1.102")	Dia. 33mm (1.299")		
TUG306 Dia. 33mm (1.299")	TUG429 Dia. 29mm (1.142")	Dia. 34mm (1.339")		
TUG306 Dia. 33mm (1.299")	TUG430 Dia. 30mm (1.181")	Dia. 35mm (1.378")		
TUG306 Dia. 33mm (1.299")	TUG431 Dia. 31mm (1.220")	Dia. 36mm (1.417")		
TUG307 Dia. 35mm (1.378")	TUG432 Dia. 32mm (1.260")	Dia. 37mm (1.457")		
TUG307 Dia. 35mm (1.378")	TUG433 Dia. 33mm (1.299")	Dia. 38mm (1.496")		
TUG308 Dia. 37mm (1.457")	TUG434 Dia. 34mm (1.399")	Dia. 39mm (1.535")		
TUG307 Dia. 35mm (1.378")	TUG435 Dia. 35mm (1.378")	Dia. 40mm (1.575")		
TUG309 Dia. 39mm (1.535")	TUG436 Dia. 36mm (1.417")	Dia. 41mm (1.614")		
TUG308 Dia. 37mm (1.457")	TUG437 Dia. 37mm (1.457")	Dia. 42mm (1.654")		
TUG309 Dia. 39mm (1.535")	TUG438 Dia. 38mm (1.496")	Dia. 43mm (1.693")		
TUG310 Dia. 41mm (1.614")	TUG439 Dia. 39mm (1.535")	Dia. 44mm (1.732")		
TUG309 Dia. 39mm (1.535")			TUG311 Dia. 43mm (1.693")	TUG439 Dia. 39mm (1.535")
TUG310 Dia. 41mm (1.614")			TUG310 Dia. 41mm (1.614")	TUG440 Dia. 40mm (1.575")
TUG309 Dia. 39mm (1.535")			TUG311 Dia. 43mm (1.693")	TUG441 Dia. 41mm (1.614")
TUG310 Dia. 41mm (1.614")			TUG312 Dia. 45mm (1.772")	TUG442 Dia. 42mm (1.654")
TUG310 Dia. 41mm (1.614")			TUG312 Dia. 45mm (1.772")	TUG443 Dia. 43mm (1.693")
TUG305 Dia. 31mm (1.220")			TUG313 Dia. 47mm (1.850")	TUG444 Dia. 44mm (1.732")
TUG305 Dia. 31mm (1.220")			TUG313 Dia. 47mm (1.850")	TUG445 Dia. 45mm (1.772")
TUG306 Dia. 33mm (1.299")			TUG314 Dia. 49mm (1.929")	TUG446 Dia. 46mm (1.811")
TUG306 Dia. 33mm (1.299")			TUG314 Dia. 49mm (1.929")	TUG447 Dia. 47mm (1.850")
TUG307 Dia. 35mm (1.378")			TUG314 Dia. 49mm (1.929")	TUG448 Dia. 48mm (1.890")
TUG307 Dia. 35mm (1.378")			TUG315 Dia. 51mm (2.008")	TUG449 Dia. 49mm (1.929")
TUG308 Dia. 37mm (1.457")			TUG315 Dia. 51mm (2.008")	TUG450 Dia. 50mm (1.968")
TUG307 Dia. 35mm (1.378")			TUG316 Dia. 53mm (2.087")	TUG451 Dia. 51mm (2.008")
TUG308 Dia. 37mm (1.457")			TUG316 Dia. 53mm (2.087")	TUG452 Dia. 52mm (2.047")
TUG308 Dia. 37mm (1.457")			TUG316 Dia. 53mm (2.087")	TUG453 Dia. 53mm (2.087")
TUG309 Dia. 39mm (1.535")			TUG317 Dia. 55mm (2.165")	TUG454 Dia. 54mm (2.126")
TUG308 Dia. 37mm (1.457")			TUG317 Dia. 55mm (2.165")	TUG455 Dia. 55mm (2.205")
TUG309 Dia. 39mm (1.535")			TUG317 Dia. 55mm (2.165")	TUG456 Dia. 57mm (2.244")
TUG310 Dia. 41mm (1.614")			TUG317 Dia. 55mm (2.165")	TUG457 Dia. 58mm (2.283")
TUG309 Dia. 39mm (1.535")			TUG317 Dia. 55mm (2.165")	TUG458 Dia. 59mm (2.323")
TUG310 Dia. 41mm (1.614")			TUG317 Dia. 55mm (2.165")	



TUG302 Dia. 25mm (.984")	TUG519 Dia. 19mm (.748")	Dia. 26mm (1.024")	Dia. 26.5mm (1.043")	Dia. 27mm (1.063")
TUG302 Dia. 25mm (.984")	TUG520 Dia. 20mm (.787")	Dia. 27mm (1.063")	Dia. 27.5mm (1.083")	
TUG303 Dia. 27mm (1.063")	TUG521 Dia. 21mm (.827")	Dia. 28mm (1.102")	Dia. 28.5mm (1.122")	Dia. 29mm (1.142")
TUG303 Dia. 27mm (1.063")	TUG522 Dia. 22mm (.866")	Dia. 29mm (1.142")	Dia. 29.5mm (1.161")	Dia. 30mm (1.181")



TUG304 Dia. 29mm (1.142")	TUG523 Dia. 23mm (.906")	Dia. 30mm (1.181")	Dia. 30.5mm (1.201")	Dia. 31mm (1.220")
TUG304 Dia. 29mm (1.142")	TUG524 Dia. 24mm (.945")	Dia. 31mm (1.220")	Dia. 31.5mm (1.240")	Dia. 32mm (1.260")
TUG305 Dia. 31mm (1.220")	TUG525 Dia. 25mm (.984")	Dia. 32mm (1.260")	Dia. 32.5mm (1.280")	Dia. 33mm (1.299")
TUG305 Dia. 31mm (1.220")	TUG526 Dia. 26mm (1.024")	Dia. 33mm (1.299")	Dia. 33.5mm (1.319")	Dia. 34mm (1.339")
TUG306 Dia. 33mm (1.299")	TUG527 Dia. 27mm (1.063")	Dia. 34mm (1.339")	Dia. 34.5mm (1.358")	Dia. 35mm (1.378")
TUG306 Dia. 33mm (1.299")	TUG528 Dia. 28mm (1.102")	Dia. 35mm (1.378")	Dia. 35.5mm (1.398")	Dia. 36mm (1.417")
TUG307 Dia. 35mm (1.378")	TUG529 Dia. 29mm (1.142")	Dia. 36mm (1.417")	Dia. 36.5mm (1.437")	Dia. 37mm (1.457")
TUG307 Dia. 35mm (1.378")	TUG530 Dia. 30mm (1.181")	Dia. 37mm (1.457")	Dia. 37.5mm (1.476")	Dia. 38mm (1.496")
TUG308 Dia. 37mm (1.457")	TUG531 Dia. 31mm (1.220")	Dia. 38mm (1.496")	Dia. 38.5mm (1.516")	Dia. 39mm (1.535")
TUG308 Dia. 37mm (1.457")	TUG532 Dia. 32mm (1.260")	Dia. 39mm (1.535")	Dia. 39.5mm (1.555")	Dia. 40mm (1.575")
TUG309 Dia. 39mm (1.535")	TUG533 Dia. 33mm (1.299")	Dia. 40mm (1.575")	Dia. 40.5mm (1.594")	Dia. 41mm (1.614")
TUG309 Dia. 39mm (1.535")	TUG534 Dia. 34mm (1.399")	Dia. 41mm (1.614")	Dia. 41.5mm (1.634")	Dia. 42mm (1.654")
TUG310 Dia. 41mm (1.614")	TUG535 Dia. 35mm (1.378")	Dia. 42mm (1.654")	Dia. 42.5mm (1.673")	Dia. 43mm (1.693")
TUG310 Dia. 41mm (1.614")	TUG536 Dia. 36mm (1.417")	Dia. 43mm (1.693")	Dia. 43.5mm (1.713")	Dia. 44mm (1.732")
TUG311 Dia. 43mm (1.693")	TUG537 Dia. 37mm (1.457")	Dia. 44mm (1.732")	Dia. 44.5mm (1.752")	Dia. 45mm (1.772")
TUG311 Dia. 43mm (1.693")	TUG538 Dia. 38mm (1.496")	Dia. 45mm (1.772")	Dia. 45.5mm (1.791")	Dia. 46mm (1.811")
TUG312 Dia. 45mm (1.772")	TUG539 Dia. 39mm (1.535")	Dia. 46mm (1.811")	Dia. 46.5mm (1.831")	Dia. 47mm (1.850")
TUG312 Dia. 45mm (1.772")	TUG540 Dia. 40mm (1.575")	Dia. 47mm (1.850")	Dia. 47.5mm (1.870")	Dia. 48mm (1.890")
TUG313 Dia. 47mm (1.850")	TUG541 Dia. 41mm (1.614")	Dia. 48mm (1.890")	Dia. 48.5mm (1.909")	Dia. 49mm (1.929")
TUG313 Dia. 47mm (1.850")	TUG542 Dia. 42mm (1.654")	Dia. 49mm (1.929")	Dia. 49.5mm (1.949")	Dia. 50mm (1.968")
TUG314 Dia. 49mm (1.929")	TUG543 Dia. 43mm (1.693")	Dia. 50mm (1.968")	Dia. 50.5mm (1.988")	Dia. 51mm (2.008")
TUG314 Dia. 49mm (1.929")	TUG544 Dia. 44mm (1.732")	Dia. 51mm (2.008")	Dia. 51.5mm (2.028")	Dia. 52mm (2.047")
TUG315 Dia. 51mm (2.008")	TUG545 Dia. 45mm (1.772")	Dia. 52mm (2.047")	Dia. 52.5mm (2.067")	Dia. 53mm (2.087")
TUG315 Dia. 51mm (2.008")	TUG546 Dia. 46mm (1.811")	Dia. 53mm (2.087")	Dia. 53.5mm (2.106")	Dia. 54mm (2.126")
TUG316 Dia. 53mm (2.087")	TUG547 Dia. 47mm (1.850")	Dia. 54mm (2.126")	Dia. 54.5mm (2.146")	Dia. 55mm (2.165")
TUG316 Dia. 53mm (2.087")	TUG548 Dia. 48mm (1.890")	Dia. 55mm (2.165")	Dia. 55.5mm (2.185")	Dia. 56mm (2.205")
TUG317 Dia. 55mm (2.165")	TUG549 Dia. 49mm (1.929")	Dia. 56mm (2.205")	Dia. 56.5mm (2.224")	Dia. 57mm (2.244")
TUG317 Dia. 55mm (2.165")	TUG550 Dia. 50mm (1.968")	Dia. 57mm (2.244")	Dia. 57.5mm (2.264")	Dia. 58mm (2.283")
TUG317 Dia. 55mm (2.165")	TUG551 Dia. 51mm (2.008")	Dia. 58mm (2.283")	Dia. 58.5mm (2.303")	Dia. 59mm (2.323")





■ COLLET, SPACER & CONE SETS FOR GENERAL APPLICATIONS:

- TUG301: Collet Dia. 23-25mm (.905"-.984"), 2 cones & 4 spacers.
- TUG302: Collet Dia. 25-27mm (.984"-1.063"), 2 cones & 4 spacers.
- TUG303: Collet Dia. 27-29mm (1.063"-1.142"), 2 cones & 4 spacers.
- TUG304: Collet Dia. 29-31mm (1.142"-1.220"), 2 cones & 4 spacers.
- TUG305: Collet Dia. 31-33mm (1.220"-1.299"), 2 cones & 4 spacers.
- TUG306: Collet Dia. 33.5-36.5mm (1.319"-1.437"), 4 cones & 4 spacers.
- TUG307: Collet Dia. 35.5-38.5mm (1.398"-1.516"), 4 cones & 4 spacers.
- TUG308: Collet Dia. 37.5-40.5mm (1.476"-1.594"), 4 cones & 4 spacers.
- TUG309: Collet Dia. 39.5-42.5mm (1.555"-1.673"), 4 cones & 4 spacers.
- TUG310: Collet Dia. 41.5-44.5mm (1.634"-1.752"), 4 cones & 4 spacers.
- TUG311: Collet Dia. 43.5-46.5mm (1.713"-1.831"), 4 cones & 4 spacers.
- TUG312: Collet Dia. 45.5-48.5mm (1.791"-1.909"), 4 cones & 4 spacers.
- TUG313: Collet Dia. 47.5-50.5mm (1.870"-1.988"), 4 cones & 4 spacers.
- TUG314: Collet Dia. 49.5-52.5mm (1.949"-2.067"), 4 cones & 4 spacers.
- TUG315: Collet Dia. 51.5-54.5mm (2.028"-2.146"), 4 cones & 4 spacers.
- TUG316: Collet Dia. 53.5-56.5mm (2.106"-2.224"), 4 cones & 4 spacers.
- TUG317: Collet Dia. 55.5-58.5mm (2.185"-2.303"), 4 cones & 4 spacers.

■ COLLET & CONE SETS FOR SELECTED CATERPILLAR APPLICATIONS:

- TUG-CAT1: 1 collet, 1 cone, seat ID 2.281", Ht. 0.625", CAT353 & like, IN.
- TUG-CAT2: 1 collet, 1 cone, seat ID 2.125", Ht. 0.625", CAT353 & like, EX.

**DISTANCE PIECE
(USED WITH LIPLESS CONES)**



- TUG-DP20: Distance piece, 20mm (.787")
- TUG-DP21: Distance piece, 21mm (.827")
- TUG-DP22: Distance piece, 22mm (.866")
- TUG-DP23: Distance piece, 23mm (.905")
- TUG-DP24: Distance piece, 24mm (.944")
- TUG-DP25: Distance piece, 25mm (.984")
- TUG-DP26: Distance piece, 26mm (1.023")
- TUG-DP27: Distance piece, 27mm (1.063")
- TUG-DP28: Distance piece, 28mm (1.102")
- TUG-DP34: Distance piece, 34mm (1.338")
- TUG-DP35: Distance piece, 35mm (1.377")
- TUG-DP36: Distance piece, 36mm (1.417")
- TUG-DP29.3: Distance piece, 29.3mm (1.153")-CAT
- TUG-DP30.3: Distance piece, 30.3mm (1.192")-CAT
- TUG-DP31.3: Distance piece, 31.3mm (1.232")-CAT

**LIPLESS CONE
(FOR VALVE SEATS WITH
CASTING INTERFERENCE AND
FREEZE PLUGS).**



- TUG519: Lipless cone, dia. 19mm (.748")
- TUG520: Lipless cone, dia. 20mm (.787")
- TUG521: Lipless cone, dia. 21mm (.827")
- TUG522: Lipless cone, dia. 22mm (.866")
- TUG523: Lipless cone, dia. 23mm (.906")
- TUG524: Lipless cone, dia. 24mm (.945")
- TUG525: Lipless cone, dia. 25mm (.984")
- TUG526: Lipless cone, dia. 26mm (1.024")
- TUG527: Lipless cone, dia. 27mm (1.063")
- TUG528: Lipless cone, dia. 28mm (1.102")
- TUG529: Lipless cone, dia. 29mm (1.142")
- TUG530: Lipless cone, dia. 30mm (1.181")
- TUG531: Lipless cone, dia. 31mm (1.220")
- TUG532: Lipless cone, dia. 32mm (1.260")
- TUG533: Lipless cone, dia. 33mm (1.299")
- TUG534: Lipless cone, dia. 34mm (1.399")
- TUG535: Lipless cone, dia. 35mm (1.378")
- TUG536: Lipless cone, dia. 36mm (1.417")
- TUG537: Lipless cone, dia. 37mm (1.457")
- TUG538: Lipless cone, dia. 38mm (1.496")
- TUG539: Lipless cone, dia. 39mm (1.535")
- TUG540: Lipless cone, dia. 40mm (1.575")
- TUG541: Lipless cone, dia. 41mm (1.614")
- TUG542: Lipless cone, dia. 42mm (1.654")
- TUG543: Lipless cone, dia. 43mm (1.693")
- TUG544: Lipless cone, dia. 44mm (1.732")
- TUG545: Lipless cone, dia. 45mm (1.772")
- TUG546: Lipless cone, dia. 46mm (1.811")
- TUG547: Lipless cone, dia. 47mm (1.850")
- TUG548: Lipless cone, dia. 48mm (1.890")
- TUG549: Lipless cone, dia. 49mm (1.929")
- TUG550: Lipless cone, dia. 50mm (1.968")
- TUG551: Lipless cone, dia. 51mm (2.008")

**TUG-GUN™
ACCESSORIES
(STUDS EXTRACTION)**



- TUG-CK: Stud puller connection set.
- TUG-S-7/16x20: Stud puller, 7/16" x 20
- TUG-S-3/8x24: Stud puller, 3/8" x 24
- TUG-S-5/16x 24: Stud puller, 5/16" x 24

**CONE WITH LIP
(FOR GENERAL
APPLICATIONS).**



- **TUG419:** Cone with lip, dia. 19mm (.748")
- **TUG420:** Cone with lip, dia. 20mm (.787")
- **TUG421:** Cone with lip, dia. 21mm (.827")
- **TUG422:** Cone with lip, dia. 22mm (.866")
- **TUG423:** Cone with lip, dia. 23mm (.906")
- **TUG424:** Cone with lip, dia. 24mm (.945")
- **TUG425:** Cone with lip, dia. 25mm (.984")
- **TUG426:** Cone with lip, dia. 26mm (1.024")
- **TUG427:** Cone with lip, dia. 27mm (1.063")
- **TUG428:** Cone with lip, dia. 28mm (1.102")
- **TUG429:** Cone with lip, dia. 29mm (1.142")
- **TUG430:** Cone with lip, dia. 30mm (1.181")
- **TUG431:** Cone with lip, dia. 31mm (1.220")
- **TUG432:** Cone with lip, dia. 32mm (1.260")
- **TUG433:** Cone with lip, dia. 33mm (1.299")
- **TUG434:** Cone with lip, dia. 34mm (1.399")
- **TUG435:** Cone with lip, dia. 35mm (1.378")
- **TUG436:** Cone with lip, dia. 36mm (1.417")
- **TUG437:** Cone with lip, dia. 37mm (1.457")
- **TUG438:** Cone with lip, dia. 38mm (1.496")
- **TUG439:** Cone with lip, dia. 39mm (1.535")
- **TUG440:** Cone with lip, dia. 40mm (1.575")
- **TUG441:** Cone with lip, dia. 41mm (1.614")
- **TUG442:** Cone with lip, dia. 42mm (1.654")
- **TUG443:** Cone with lip, dia. 43mm (1.693")
- **TUG444:** Cone with lip, dia. 44mm (1.732")
- **TUG445:** Cone with lip, dia. 45mm (1.772")
- **TUG446:** Cone with lip, dia. 46mm (1.811")
- **TUG447:** Cone with lip, dia. 47mm (1.850")
- **TUG448:** Cone with lip, dia. 48mm (1.890")
- **TUG449:** Cone with lip, dia. 49mm (1.929")
- **TUG450:** Cone with lip, dia. 50mm (1.968")
- **TUG451:** Cone with lip, dia. 51mm (2.008")
- **TUG452:** Cone with lip, dia. 52mm (2.047")
- **TUG453:** Cone with lip, dia. 53mm (2.087")
- **TUG454:** Cone with lip, dia. 54mm (2.126")
- **TUG455:** Cone with lip, dia. 55mm (2.165")



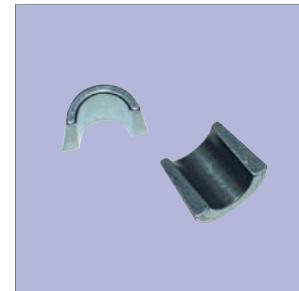
TUG600
Replacement threaded shaft for TUG-GUN™.



TUG603
Replacement wrench for TUG602, expansion nut.



TUG602
Replacement expansion
nut for TUG-GUN™.



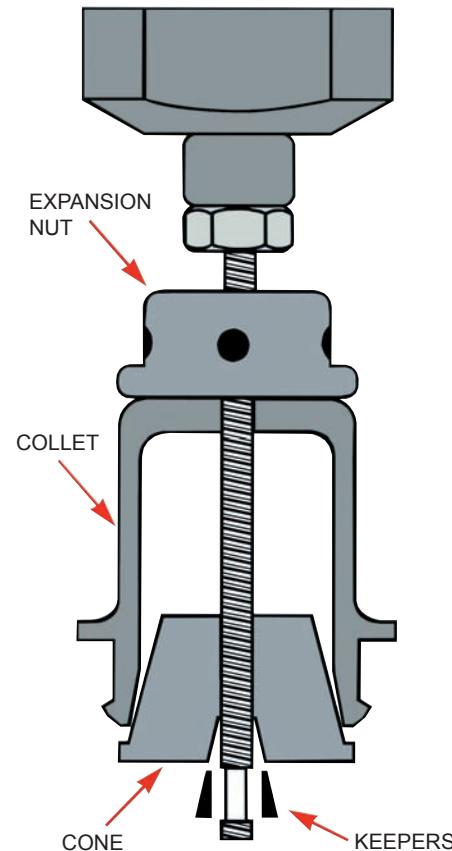
TUG601
Replacement keepers
(set of 2).



TUG604
Replacement Lock-nut.



TUG605
Replacement hose fitting.



Why the PCC™ Tool?

When resurfacing a diesel engine cylinder head with indirect injection, pre-combustion chambers counterbores also have to be machined at the right depth in order to:

- 1.** Have the pre-combustion chambers sit slightly higher than the gasket plan of the cylinder head, to ensure that the said precombustion chambers are properly maintained in place by the cylinder head gasket. Most O.E.M.s recommend that the pre-combustion chambers jut out approximately 2 to 3/100mm (**0.001"**) above the cylinder head gasket plan.
- 2.** Give a perfectly stable seat to the pre-combustion chambers, knowing that, in the long run, the pre-combustion chamber housings lose their shape and do not hold the pre-combustion chambers properly.
- 3.** Allow, under any circumstances, the replacement of a pre-combustion chamber while respecting the recommended depth.

It is not advisable to surface a cylinder head with the pre-combustion chambers left installed, for the following reasons:

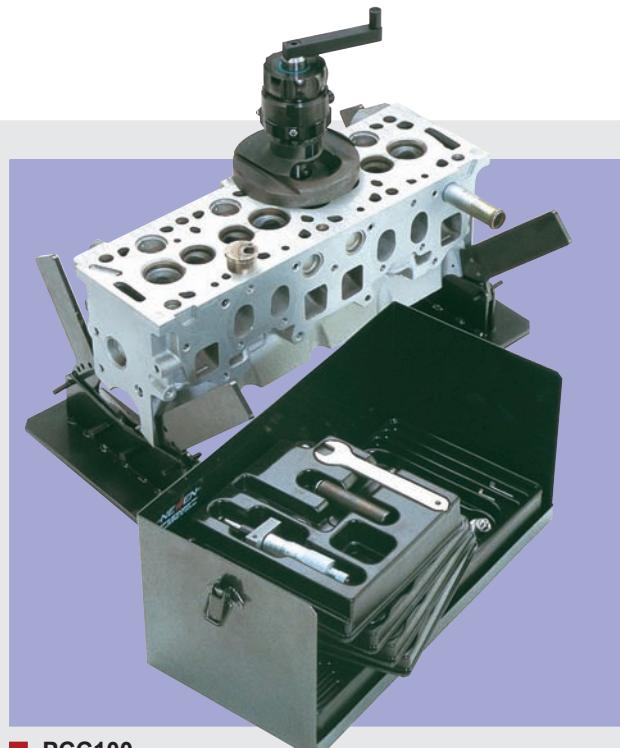
- The pre-combustion chambers will never be maintained properly since they will be flush with the cylinder head gasket plan and, consequently, will not receive any pressure from the gasket.
- The surfacing of the aluminum of a cylinder head and that of the alloy of the pre-combustion chambers require different cutters and different speeds. Moreover, it is extremely difficult to get a perfectly plan surface when grinding two different materials in one single operation.
- A pre-combustion chamber can come loose while the cylinder head is being resurfaced and can cause important damages to both cylinder head and the machine itself.
- A cylinder head surfaced with its pre-combustion chambers left installed can no longer receive original size replacement chambers.
- Surfacing pre-combustion chambers weakens these and multiplies the risk of rupture.

Among other things, it is important to extract the pre-combustion chambers to verify their press-fit in the cylinder head. In the event the pre-combustion chambers would not have the proper press-fit, it is recommended to widen their housings and to install oversize pre-combustion chambers instead.

PCC100

A counterboring tool to:

- Machine the housing of the precombustion chambers in diesel cylinder heads with indirect injection.
- Machine the housing width of pre-combustion chambers to install oversize pre-combustion chambers.

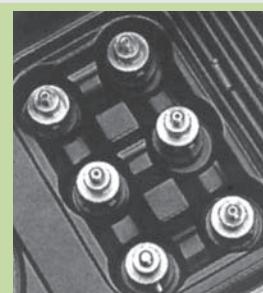


PCC100

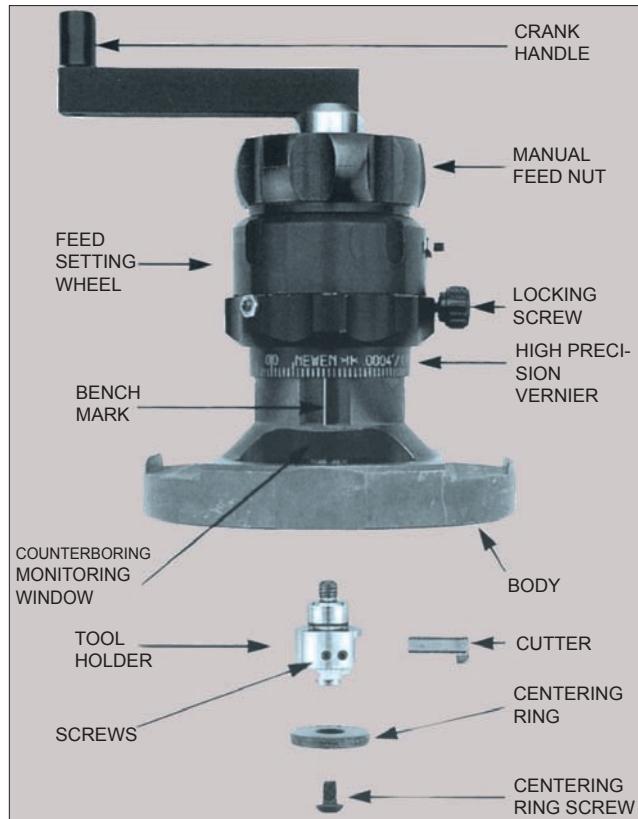
Universal counterboring tool includes:

- 1 Metal storage box with organizers
- 1 PCC301, precision micrometer with fixture
- 1 Box wrench
- 4 Allen wrenches
- 1 PCC™ tool
- 1 Crank handle
- 1 Lathe adaptor
- 1 PCC304, Tool holder
- 1 PCC3031, #1 cutter, capacity: 25-30mm (**.984-1.181"**)
- 1 PCC3032, #2 cutter, capacity: 30-40mm (**1.181-1.575"**)
- 1 PCC3033, #3 cutter, capacity: 40-50mm (**1.575-1.968"**)
- 24 centering rings:
24.80mm (**.9764"**), 25.35mm (**.9980"**),
25.45mm (**1.0020"**), 25.90mm (**1.0197"**),
26.70mm (**1.0512"**), 26.80mm (**1.0551"**),
27.20mm (**1.0709"**), 27.40mm (**1.0787"**),
27.60mm (**1.0866"**), 28.15mm (**1.1083"**),
28.80mm (**1.1339"**), 28.90mm (**1.1378"**),
29.65mm (**1.1673"**), 29.75mm (**1.1713"**),
30.10mm (**1.1850"**), 30.30mm (**1.1929"**),
30.40mm (**1.1969"**), 32.90mm (**1.2953"**),
34.60mm (**1.3622"**) - GM6.2 & GM6.5L applications,
34.65mm (**1.3642"**), 34.75mm (**1.3681"**),
35.90mm (**1.4134"**) - FORD/NAVISTAR 6.9/7.3L applications,
40.00mm (**1.5748"**) - semi finished centering rings, 2 rings included, to be used with lathe adaptor.

The bottom drawer of the PCC100 organizer can store several pre-set tool holders for your most common cylinder heads. Pre-set tool holders are very affordable and reduce set-up time significantly.



- SAVE TIME.
- KEEP JOB QUALITY CONSISTENT OVER TIME.
- MINIMIZE TOOLING WEAR.
- INCREASE PROFITABILITY.



PCC304
Centering head and cutter holder.



PCC304L
Centering head and cutter holder
(1" longer).



PCC3031
#1 cutter, capacity: 25mm-30mm
(1"-1.18").



PCC3032
#2 cutter, capacity: 30mm-40mm
(1.18"-1.574").

PCC3033
#3 cutter, capacity: 40mm-50mm
(1.574"-2").

PCC3034
#4 cutter for wide housings.
Same length as #2 cutter.

PCC305
Replacement centering ring,
dia. 24.8mm-40mm
(1"-1.574") - **Order as follow:**
PCC305-34.6.



PCC302
Universal cylinder head holder,
adjustable without tools, to position
any shape cylinder head with its
gasket side horizontal.



PCC110
Clamping table for PCC100
(NEW)



■ NWN-CTS

NEWEN® high performance carbide tip sharpener (available in 110V or 220V).

Includes:

- 1 NWN-DWN, high performance diamond wheel.
- 1 NWN-WC, diamond wheel center.
- 1 NWN-GP375, guiding pin, dia. 9.52mm (.375").
- 1 NWN-CTSLK, 2.5mm L-key.
- 1 NWN-SFTG, pair of safety glasses.
- 1 NWN-CTSMNL, user manual.

With NEWEN® high performance carbide tip sharpener:

- Save time
- Prolong carbide tips and tip holders life
- Minimize tooling wear
- Increase profitability

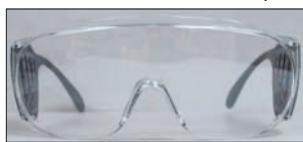
Interchangeable guiding pins for total compatibility with NEWEN®, Kwik-Way, Sunnen, Peterson, Berco, DCM, Winona, Sioux, KO Lee, Tobin Arp and Mira tool holders and ball heads.

GIVE YOUR EMPLOYEES THE TOOLS TO BE MORE PRODUCTIVE!



■ NWN-DWN

Replacement diamond wheel for NEWEN® sharpener.



■ NWN-SFTG

Replacement safety glasses.



■ NWN-GP375

Guiding pin, dia. .375" (9.52mm)

■ NWN-GP385

Guiding pin, dia. .385" (9.78mm)

■ NWN-GP389

Guiding pin, dia. .389" (9.88mm)

■ NWN-GP390

Guiding pin, dia. .390" (9.90mm)

■ NWN-GP437

Guiding pin, dia. .437" (11.10mm)

■ NWN-GPMRA

Guiding pin, dia. .375" (Mira)



■ NWN-DWS

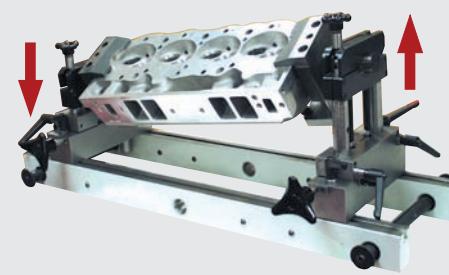
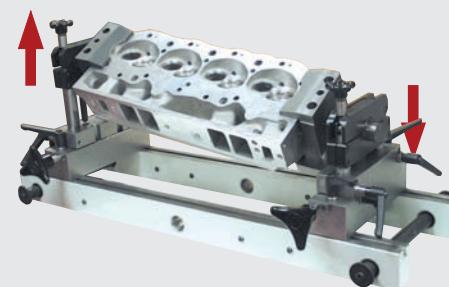
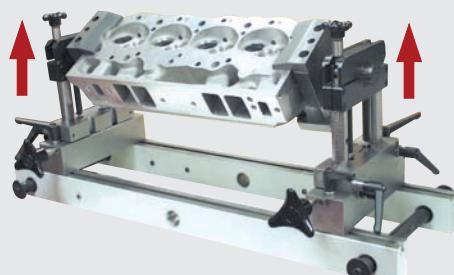
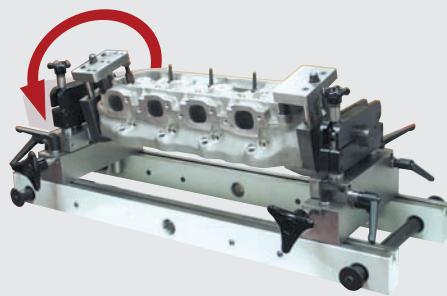
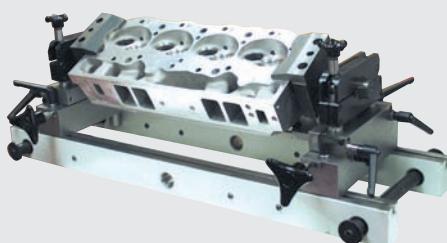
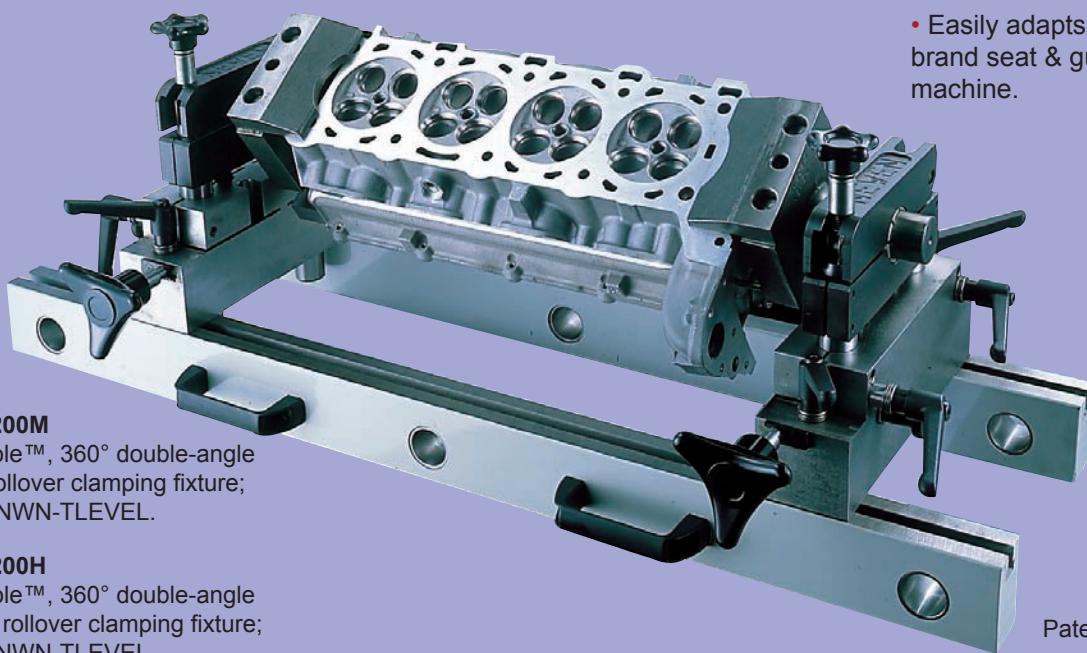
Replacement diamond wheel for Serdi sharpener.



■ BALL HEADS



■ TOOL HOLDERS



- NEWEN®'s most universal precision clamping system for automotive and light diesel cylinder heads. Allows quick positioning of most cylinder heads regardless of the valve guide angles. Also allows to simply raise cylinder heads to any desired level and to roll them over for various jobs.

- This patented system is quick, universal, very rigid, user friendly and does not put any stress on cylinder heads owing to its independent jaws and spherical collet clamping system.

A must for any seat & guide machine.



■ **SGC425**

Extended reach jaw for SGC200M & SGC200H clamping systems.

■ **SGC425-S**

Extended reach jaw for SGC200M-S clamping systems (for SUPER100™ machines).



■ **SGC416**

Set of two tall jaw columns & contact plates (8.58") for SGC200M & SGC200H clamping systems.



■ **SGC417**

Set of 2 additional clamping jaws for SGC200M & SGC200H clamping systems.

■ **SGC417-S**

Set of 2 additional clamping jaws for SGC200M-S clamping systems (for SUPER100™ machines).



■ **NWN-ACB1**

Set of 2 adjustable clamping pins for odd shaped cylinder heads.
40-50mm (1.57"-2.16")



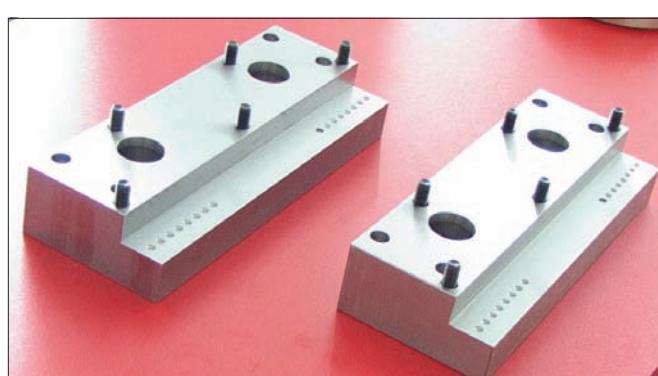
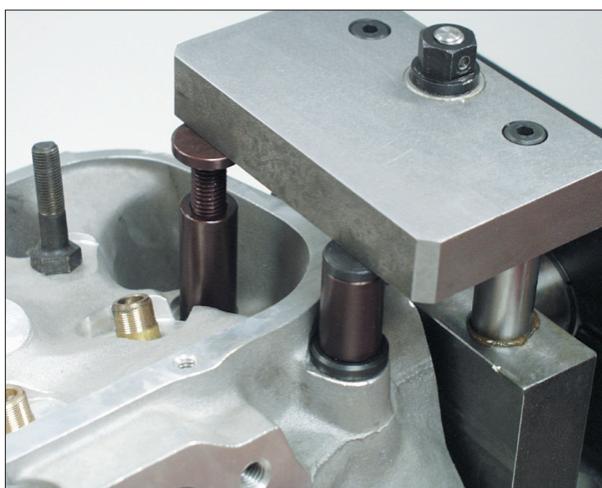
■ **NWN-ACB2**

Set of 2 adjustable clamping pins for odd shaped cylinder heads.
55-75mm (2.16"-2.95")



■ **NWN-ACB3**

Set of 2 adjustable clamping pins for odd shaped cylinder heads.
75-100mm (2.95"-3.93")



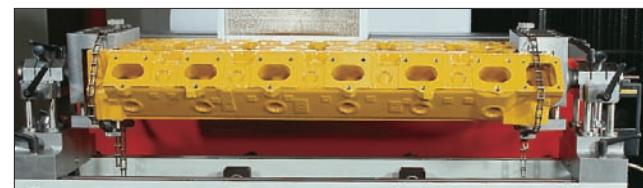
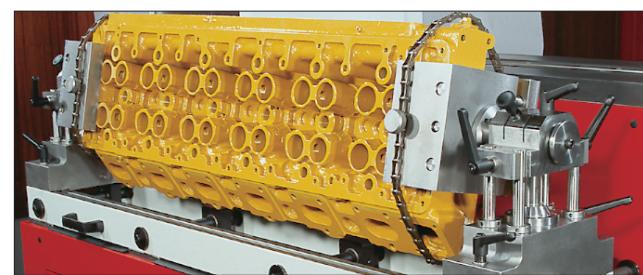
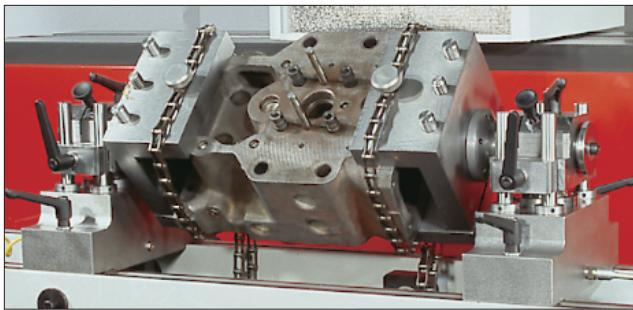
■ **SGC406**

Adapter plates for SGC200M (set of 2)
(For Milling Machines, others...)



■ SGC200PHD

Pneumatic assisted 360 degree heavy duty rollover clamping fixture for large diesel cylinder heads - **NON-STOCK**.



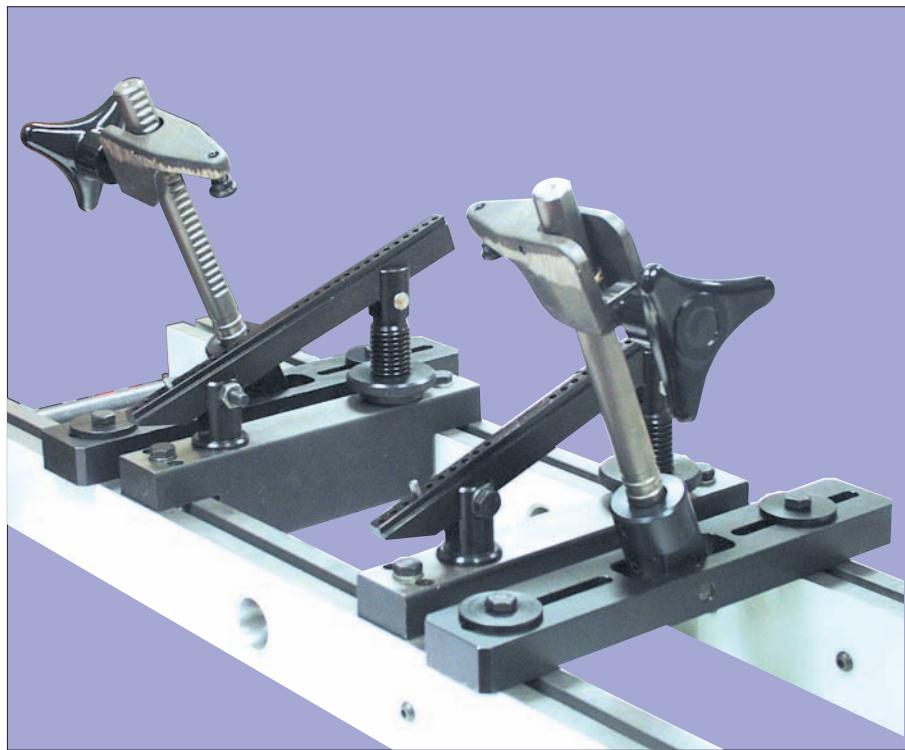
■ SGC213

Multi-angle swing cylinder head clamping fixture.

■ SGC213-S

Multi-angle swing cylinder head clamping fixture.

For SUPER100™ machines.

**■ SGC212**

Multi-angle cylinder head clamping fixture and set of 2 side clamps
(SGC704 & SGC705 included).

**■ SGC704**

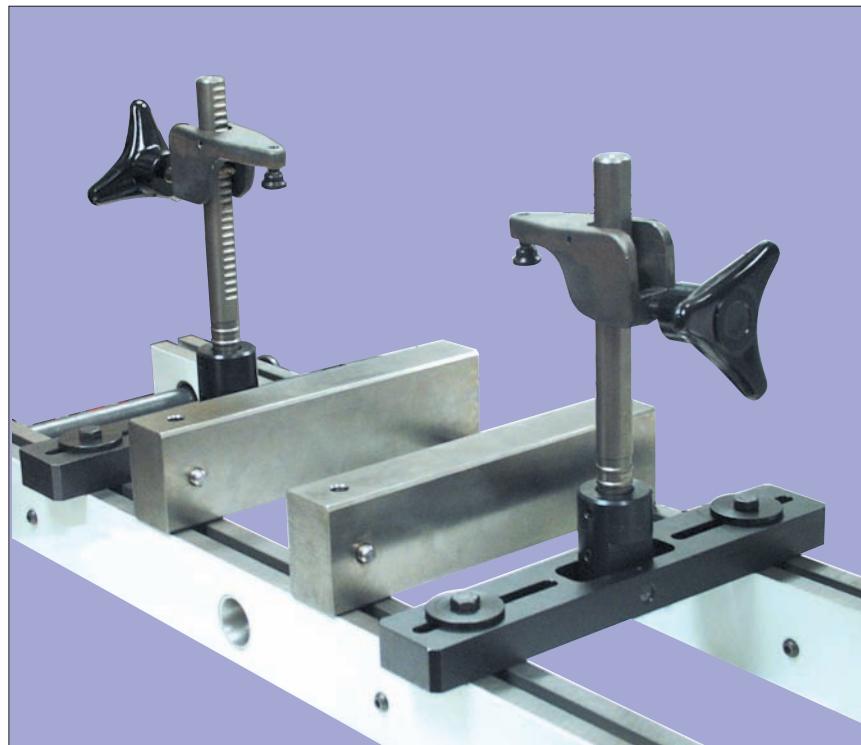
45mm height parallel for SGC212.

■ SGC705

60mm height parallel for SGC212.

■ SGC201

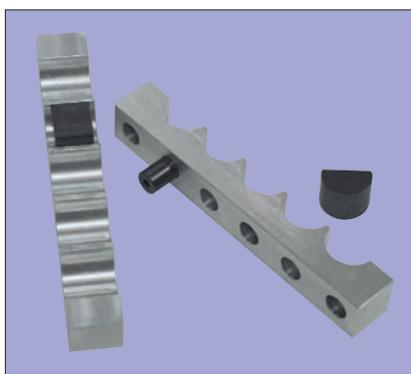
Side clamping fixture with set of 2 riser blocks.

**■ SGC407**

Set of 2 side clamps.

**■ SGC403**

Set of 2 precision machined cast iron cylinder head positioning blocks (riser blocks).



■ SGC404

Set of 2 aluminum pads for clamping aluminum cylinder heads (commonly used with SGC212).



■ SGC405

Set of 2 long side clamp bars for SGC201, SGC212 or SGC213.



■ SGC721

Replacement parallels lock handle for SGC200M & SGC200H. Use SGC721-S for SGC200M-S.



■ SGC765

Replacement parallels lock handle for SGC213. Use SGC765-S for SGC213-S.



■ SGC766

Replacement side clamp.



■ SGC710

Replacement pivoting lock handle for SGC200M & SGC200M-S.

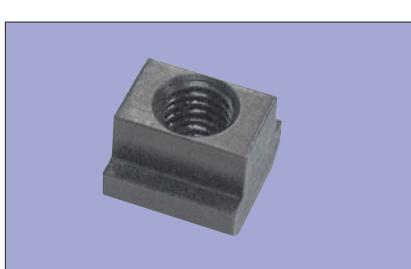


■ SGC769

Replacement side clamp lead screw for SGC699 (SGC200M, SGC200M-S & SGC200H) - comes as a set.

■ SGC770

Replacement side clamp lead screw for SGC416 (SGC200M & SGC200H) - comes as a set.



■ SGC616

Replacement T-nut.



■ SM201
Adjustable height stand.



■ SM202
Standard stand.



■ SM206
Stainless steel parts
organizer.



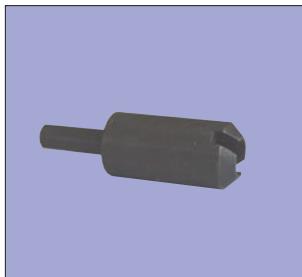
■ SM815
Cam-bucket bore protector
kit.



■ SM207
Self-locking tweezers.



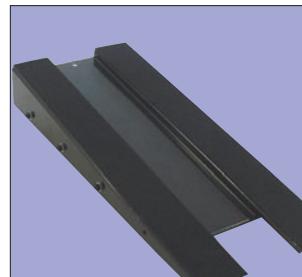
■ SM208
Telescopic magnet.



■ SM241
Drill adapter.



■ SM220
Universal fastening fixtures.



■ SM210
Compound angle wedge.



■ SM251
Pneumatic foot motorization.



■ SM280
Air drill kit.



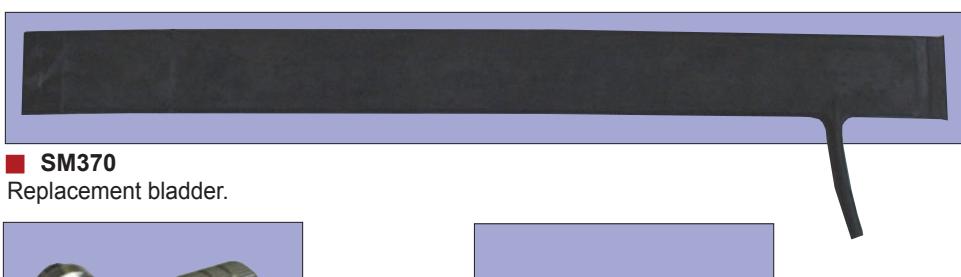
■ SM200
Replacement chuck adapter.



■ SM318-344
Replacement gripper (18mm,
20mm, 22mm, 24mm, 26mm, 28mm,
32mm, 36mm, 40mm, 44mm).



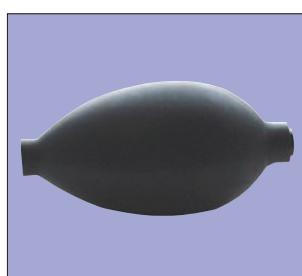
■ SM351
Replacement vanes (set of
5) for pneumatic motor.



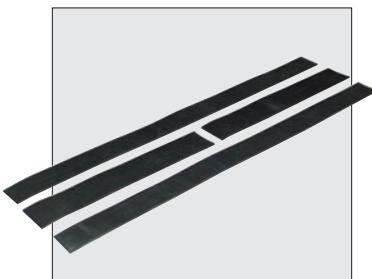
■ SM370
Replacement bladder.



■ SM372
Replacement
in-line valve.



■ SM371
Replacement
hand pump.



■ SM373
Replacement mat set.



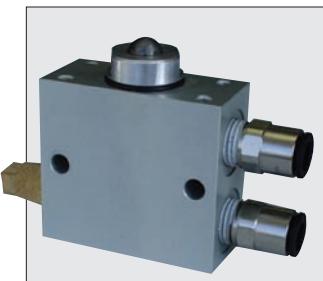
■ SM374
Replacement bull'd eye level.



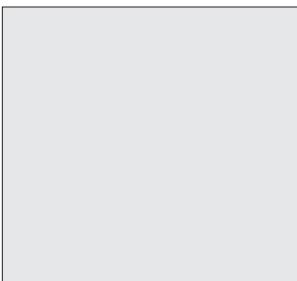
■ SM375-25-44
Replacement cam-bucket
bore protector, 25-44mm.



■ SM473
Gear drive assembly (axle,
bearings, tapered screw, half
axles, housing).



■ SM350
Foot pedal air distributor.







For faster service, this 800 number (USA & CANADA only) will access you directly to NEWEN®'s customer service department.

1-800-639-3693



■ Order by 4.00pm PST,
We Ship Same Day!

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TOOLS
FIXTURES
& ACCESSORIES

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